FIG.1

RPS:RADIO PROCESSING SECTION
CES:CHANNEL ESTIMATION SECTION
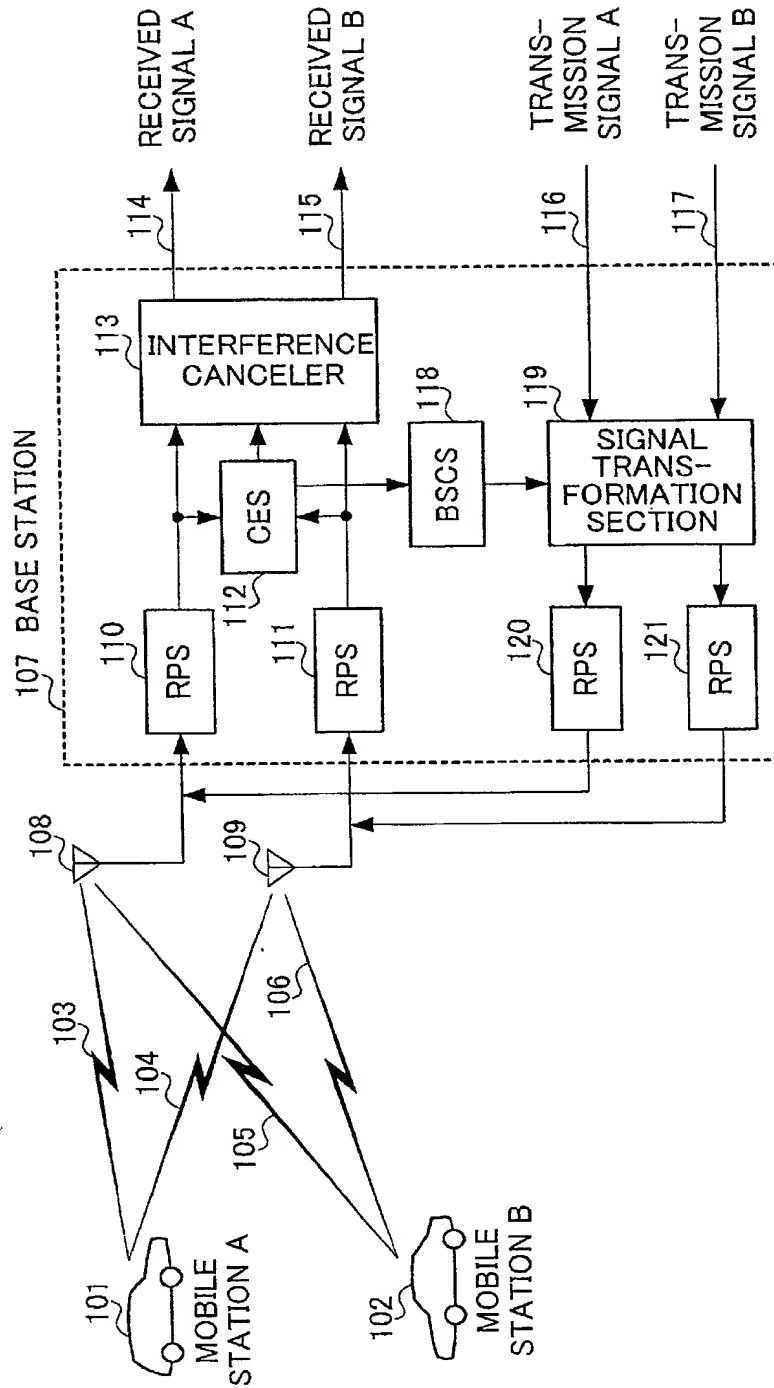
FIG.2

RPS:RADIO PROCESSING SECTION
CES:CHANNEL ESTIMATION SECTION
BSCS:BEST SIR CALCULATION SECTION

FIG.3

RPS:RADIO PROCESSING SECTION
CES:CHANNEL ESTIMATION SECTION
BSCS:BEST SIR CALCULATION SECTION
UEES:UNSTABLE ELEMENT
EXPULSION SECTION
SDS:STABILITY DISCRIMINATION SECTION
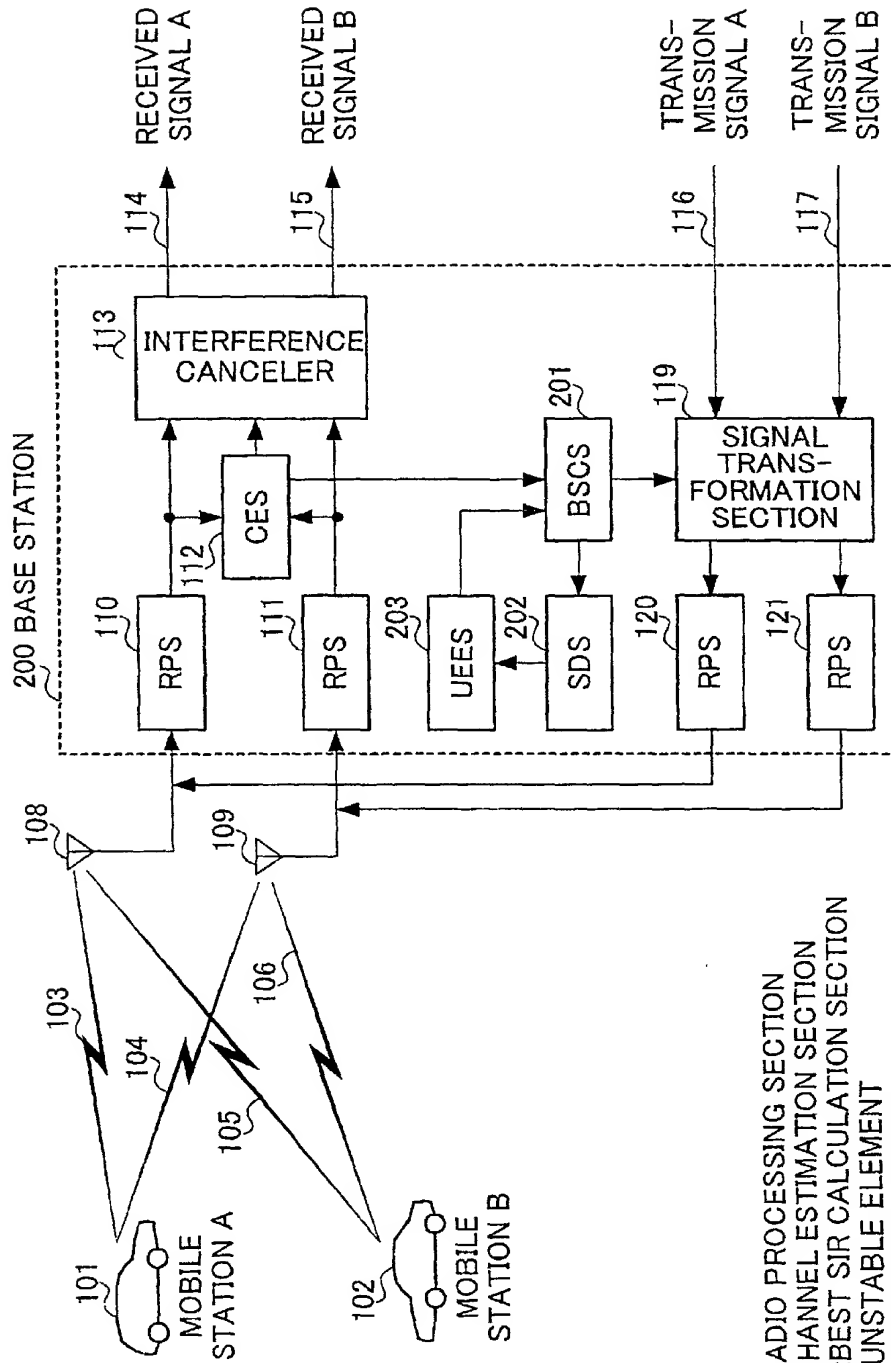
FIG.4

RPS:RADIO PROCESSING SECTION
CES:CHANNEL ESTIMATION SECTION
BSCS:BEST SIR CALCULATION SECTION
UEES:UNSTABLE ELEMENT
EXPULSION SECTION
SDS:STABILITY DISCRIMINATION SECTION
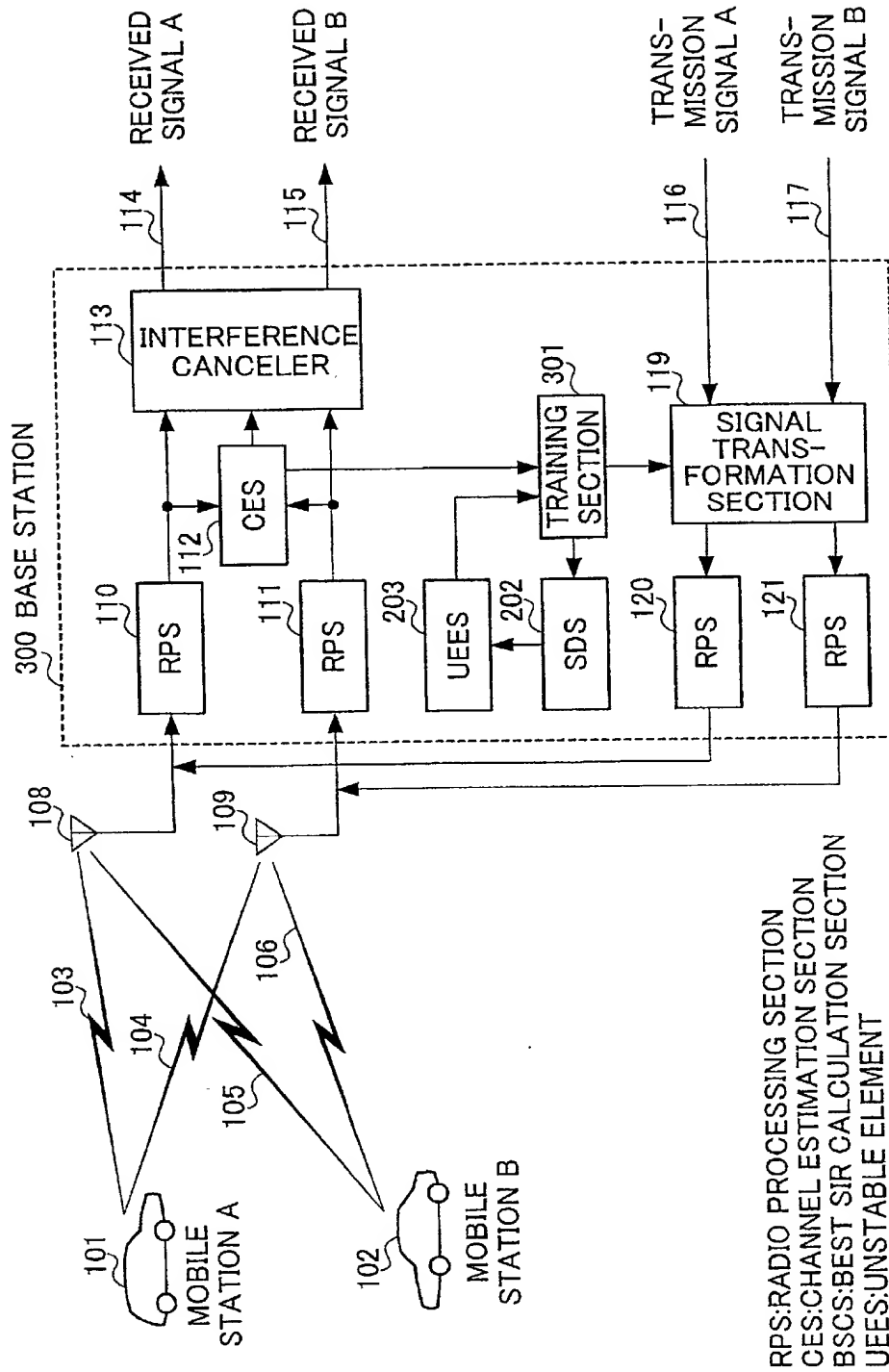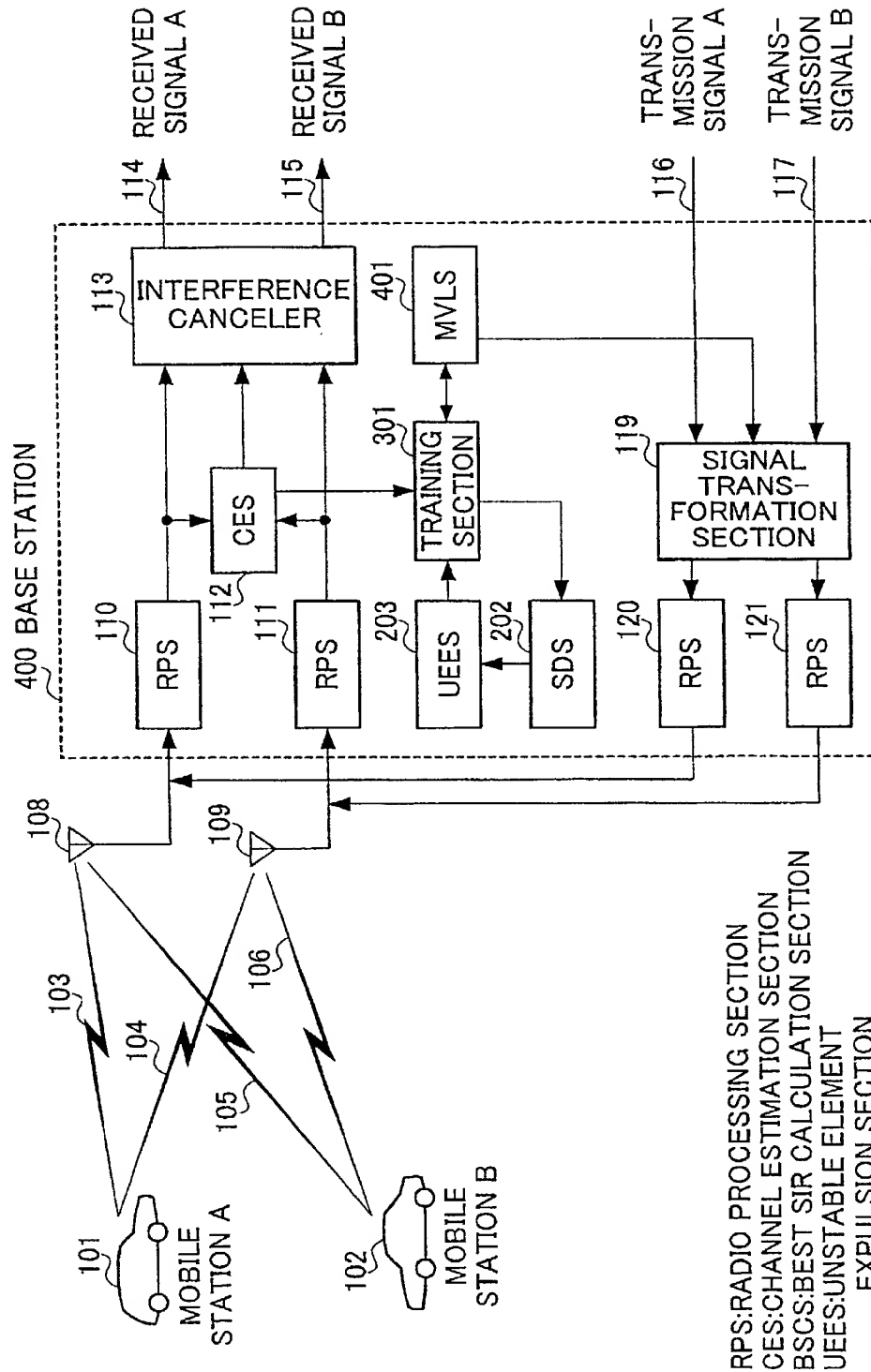
FIG.5

RPS:RADIO PROCESSING SECTION
CES:CHANNEL ESTIMATION SECTION
BSCS:BEST SIR CALCULATION SECTION
UEES:UNSTABLE ELEMENT
      EXPULSION SECTION
SDS:STABILITY DISCRIMINATION SECTION
MVLS:MAXIMUM VALUE LIMITING SECTION

FIG.6

RECEIVED SIGNAL A

RECEIVED SIGNAL B

TRANS-MISSION SIGNAL A

TRANS-MISSION SIGNAL B

114

115

116

117

113 INTERFERENCE CANCELER

401 MVLS

501 NGS

301 TRAINING SECTION

119 SIGNAL TRANS-FORMATION SECTION

500 BASE STATION

110 RPS

112 CES

111 RPS

203 UEES

202 SDS

120 RPS

121 RPS

108

109
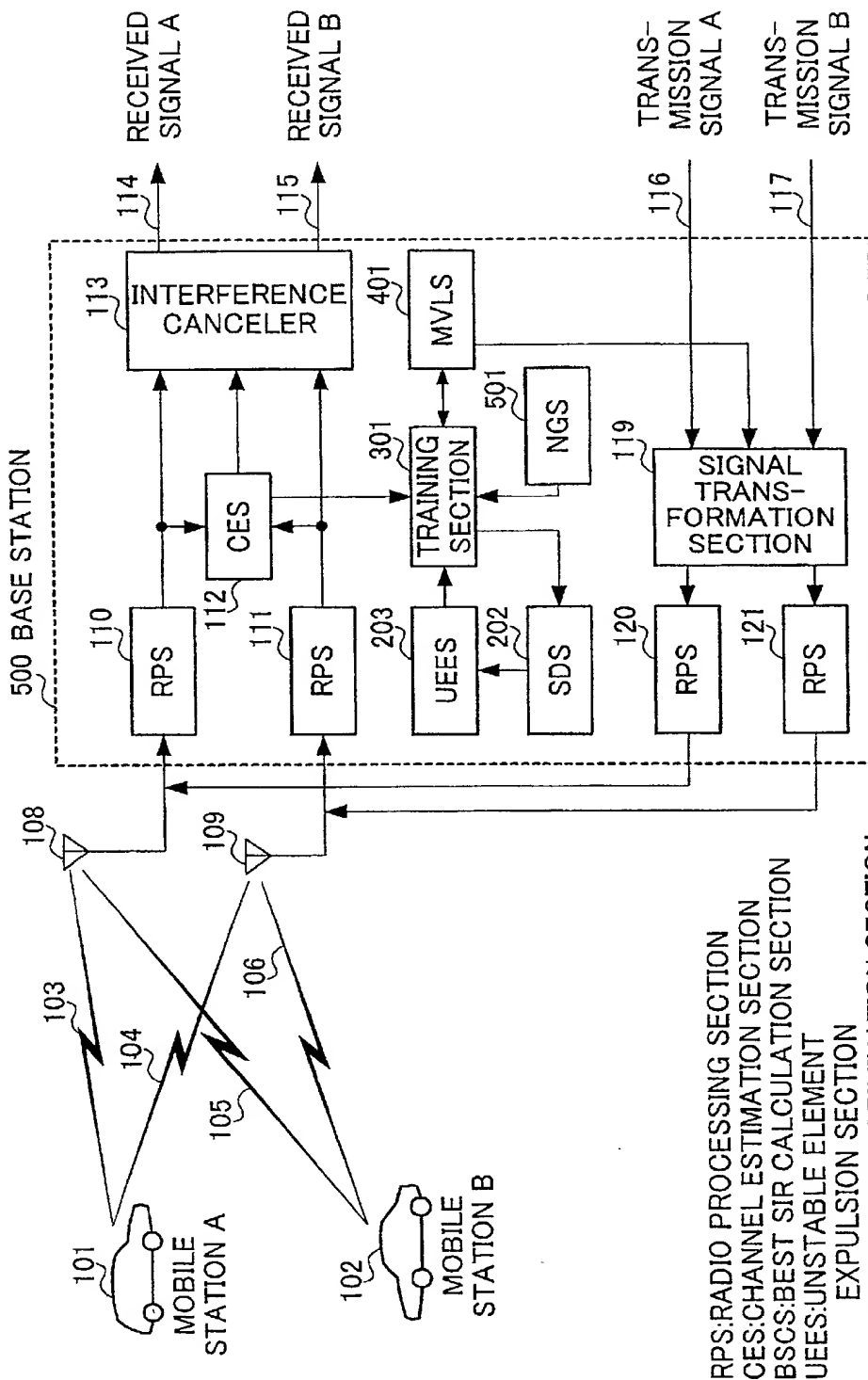
103

104

105

106

101 MOBILE STATION A

102 MOBILE STATION B

RPS:RADIO PROCESSING SECTION
CES:CHANNEL ESTIMATION SECTION
BSCS:BEST SIR CALCULATION SECTION
UEES:UNSTABLE ELEMENT EXPULSION SECTION
SDS:STABILITY DISCRIMINATION SECTION
MVLS:MAXIMUM VALUE LIMITING SECTION
NGS:NOISE GENERATION SECTION

FIG.7

RPS:RADIO PROCESSING SECTION
CES:CHANNEL ESTIMATION SECTION
BSCS:BEST SIR CALCULATION SECTION
UEES:UNSTABLE ELEMENT
EXPULSION SECTION
SDS:STABILITY DISCRIMINATION SECTION
MVLS:MAXIMUM VALUE LIMITING SECTION
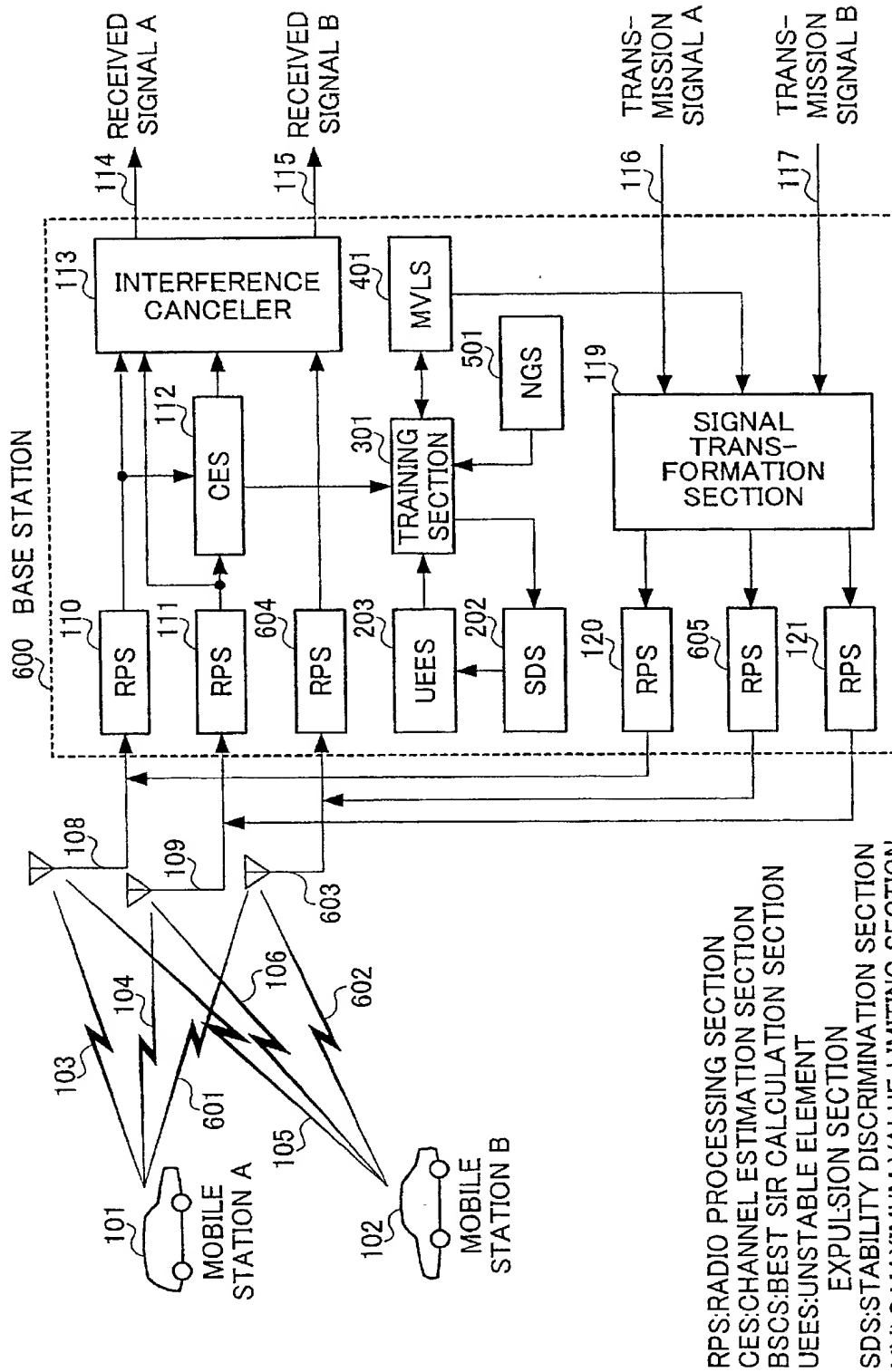NGS:NOISE GENERATION SECTION

RECEIVED SIGNAL A

RECEIVED SIGNAL B

TRANS-MISSION SIGNAL A

TRANS-MISSION SIGNAL B

114

115

116

117

700 BASE STATION

113 INTERFERENCE CANCELER

401 MVLS

112 CES

501 NGS

301 TRAINING SECTION

701 BCSS

119 SIGNAL TRANS-FORMATION SECTION

110 RPS

111 RPS

604 RPS

203 RPS

202 UEES

SDS

702 RPS

703 RPS

704 RPS

108

109

603

103

104

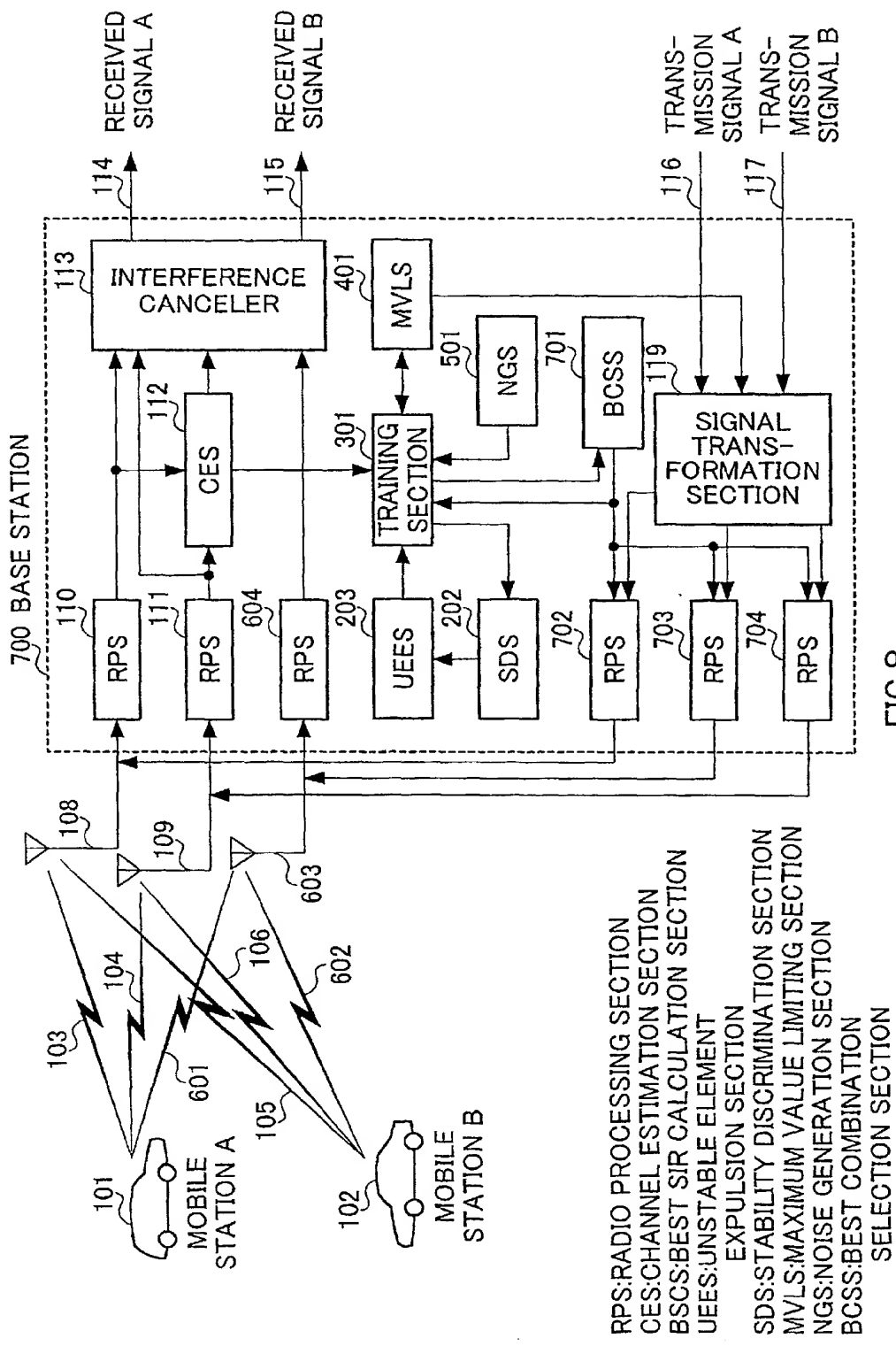601

106

602

105

101 MOBILE STATION A

102 MOBILE STATION B

FIG.8

RPS:RADIO PROCESSING SECTION
CES:CHANNEL ESTIMATION SECTION
BSCS:BEST SIR CALCULATION SECTION
UEES:UNSTABLE ELEMENT EXPULSION SECTION
SDS:STABILITY DISCRIMINATION SECTION
MVLS:MAXIMUM VALUE LIMITING SECTION
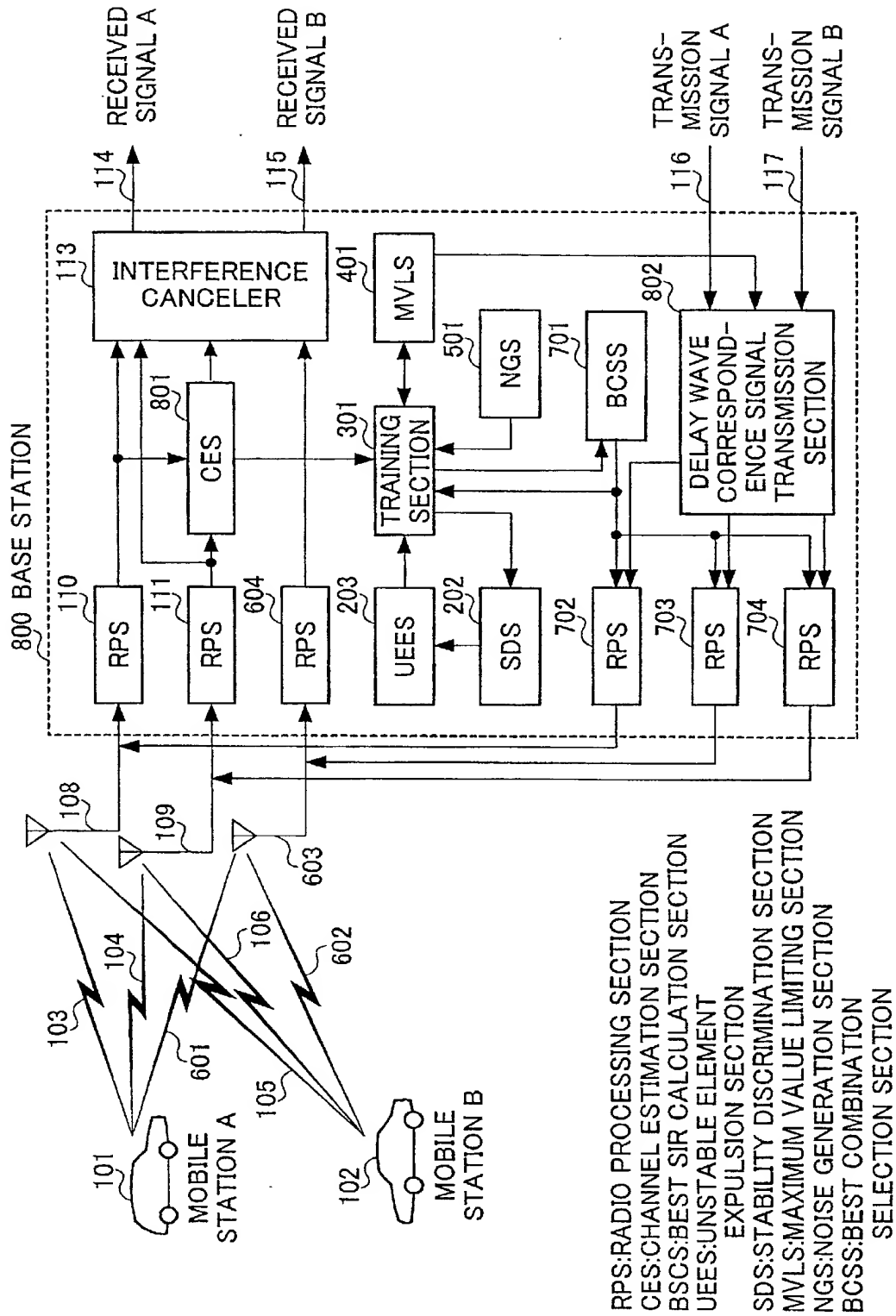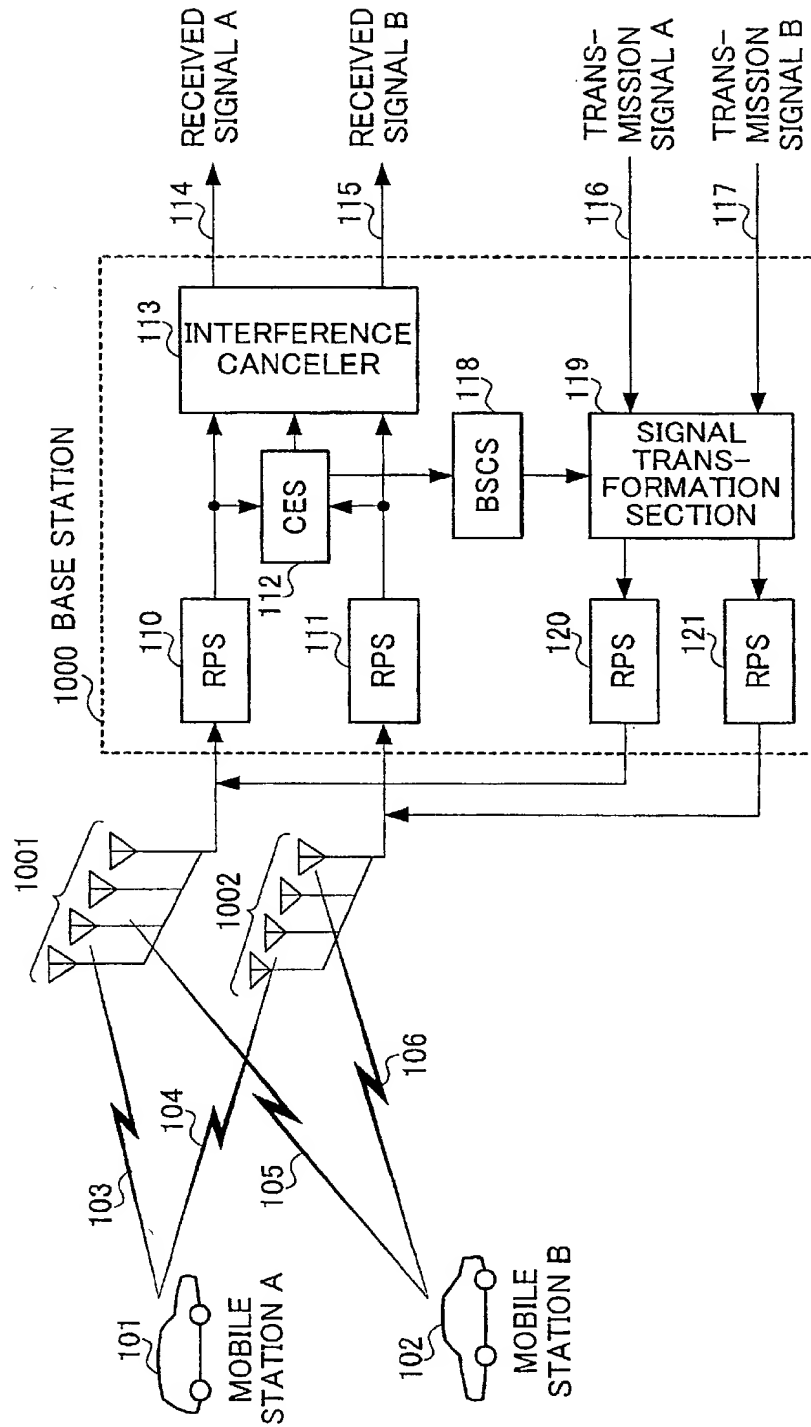NGS:NOISE GENERATION SECTION
BCSS:BEST COMBINATION SELECTION SECTION

RECEIVED SIGNAL A

RECEIVED SIGNAL B

TRANS- MISSION SIGNAL A

TRANS- MISSION SIGNAL B

800 BASE STATION

114

115

116

117

113 | INTERFERENCE CANCELER

401 | MVLS

801 | CES

301 | TRAINING SECTION

501 | NGS

701 | BCSS

802 | DELAY WAVE CORRESPOND- ENCE SIGNAL TRANSMISSION SECTION

110 | RPS

111 | RPS

604 | RPS

203 | UEES

202 | SDS

702 | RPS

703 | RPS

704 | RPS

108

109

603

103

104

601

106

602

105

101 | MOBILE STATION A

102 | MOBILE STATION B

FIG.9

RPS:RADIO PROCESSING SECTION
CES:CHANNEL ESTIMATION SECTION
BSCS:BEST SIR CALCULATION SECTION
UEES:UNSTABLE ELEMENT
        EXPULSION SECTION
SDS:STABILITY DISCRIMINATION SECTION
MVLS:MAXIMUM VALUE LIMITING SECTION
NGS:NOISE GENERATION SECTION
BCSS:BEST COMBINATION
        SELECTION SECTION

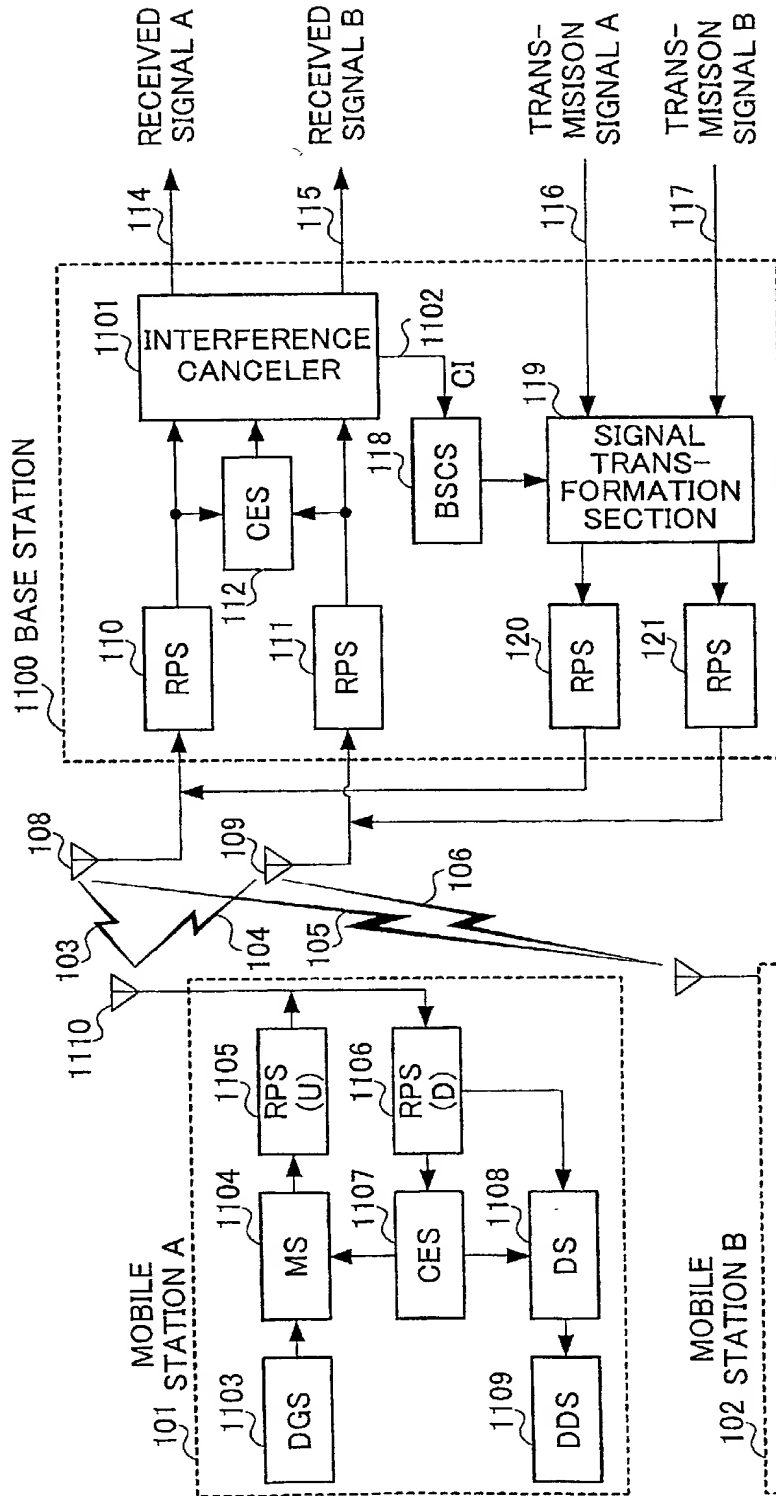FIG.10

TRANSMISSION SIGNAL A

TRANSMISSION SIGNAL B

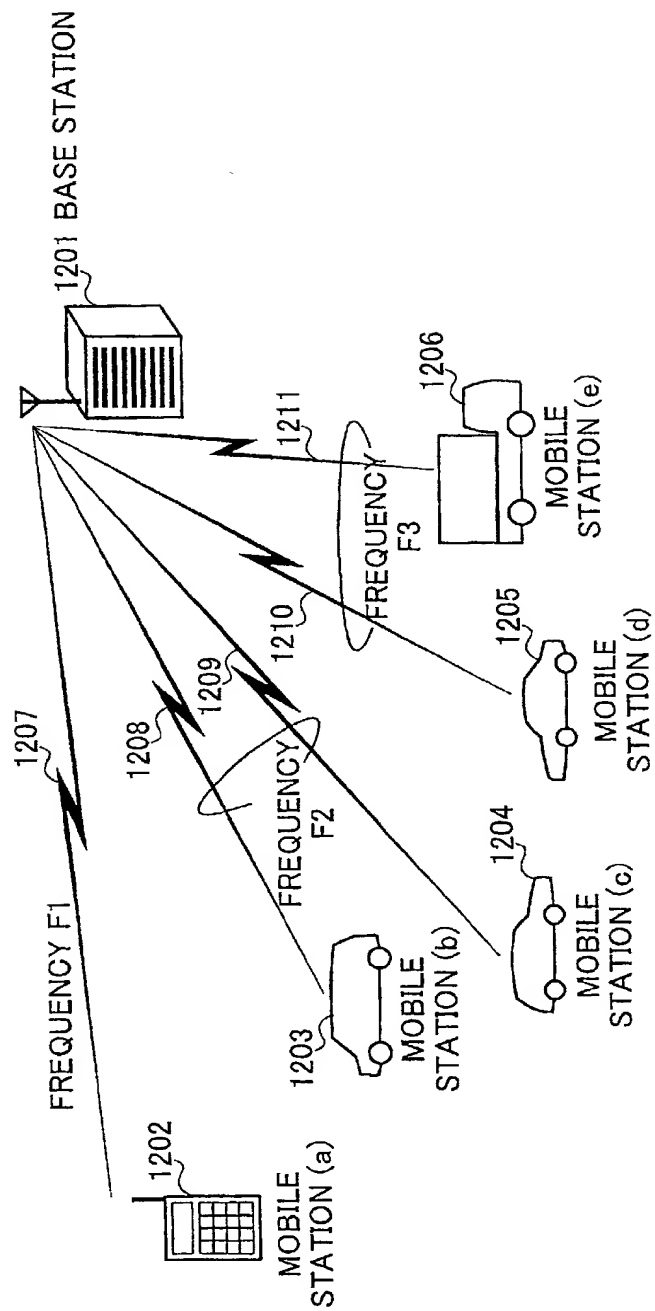ADDTION SECTION

RPS:RADIO PROCESSING SECTION
DS:DELAY SECTION

TO RPS 702

TO RPS 704

FIG.11

RPS:RADIO PROCESSING SECTION
CES:CHANNEL ESTIMATION SECTION
BSCS:BEST SIR CALCULATION SECTION

FIG.12

BSCS:BEST SIR CALCULATION SECTION
CI:CHANNEL INFORMATION

DGS:DATA GENERATION SECTION
DDS:DATA DECODING SECTION
MS:MULTIPLEXING SECTION
CES:CHANNEL ESTIMATION SECTION
DS:DEMODULATION SECTION
RPS:RADIO PROCESSING SECTION
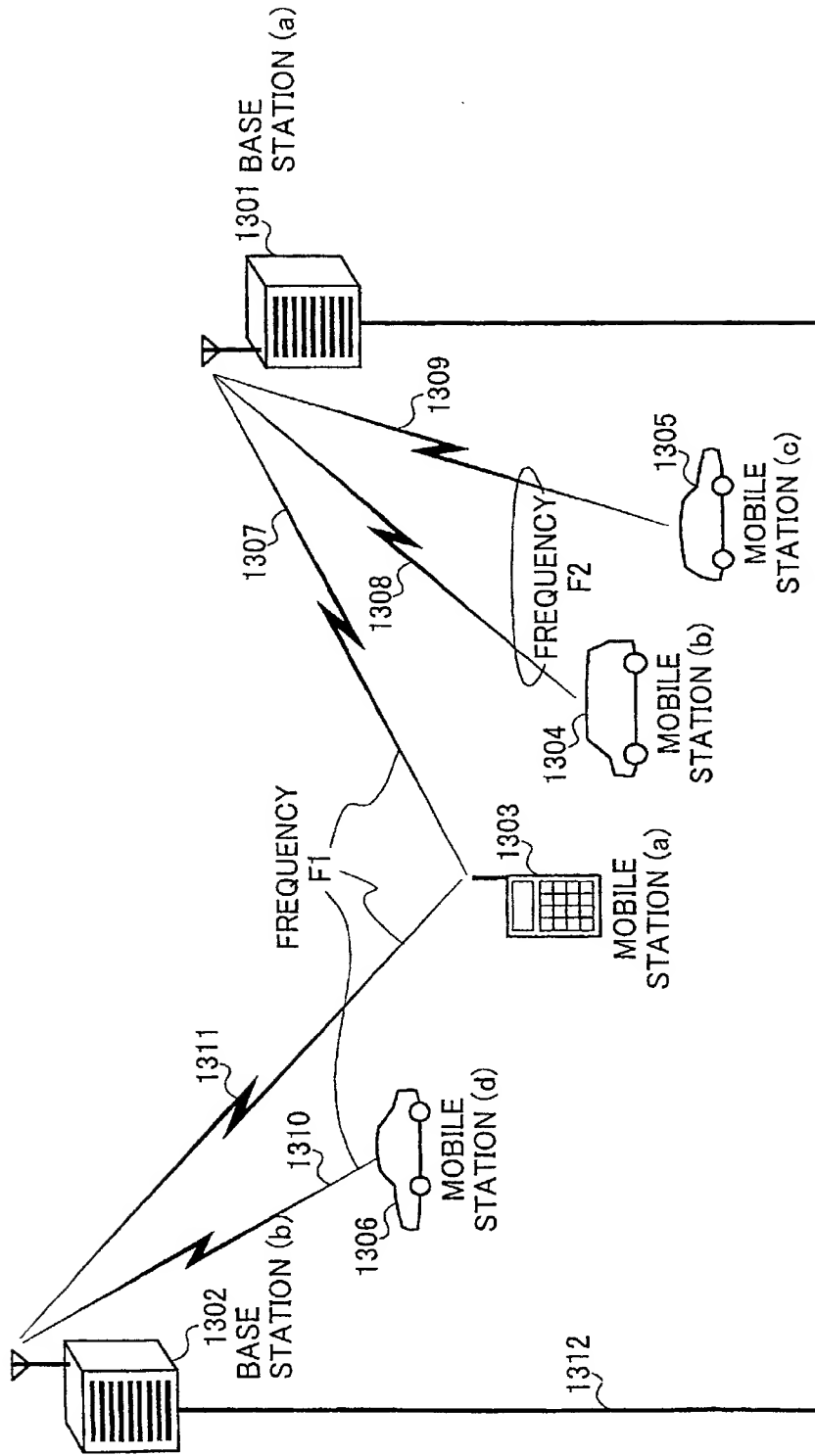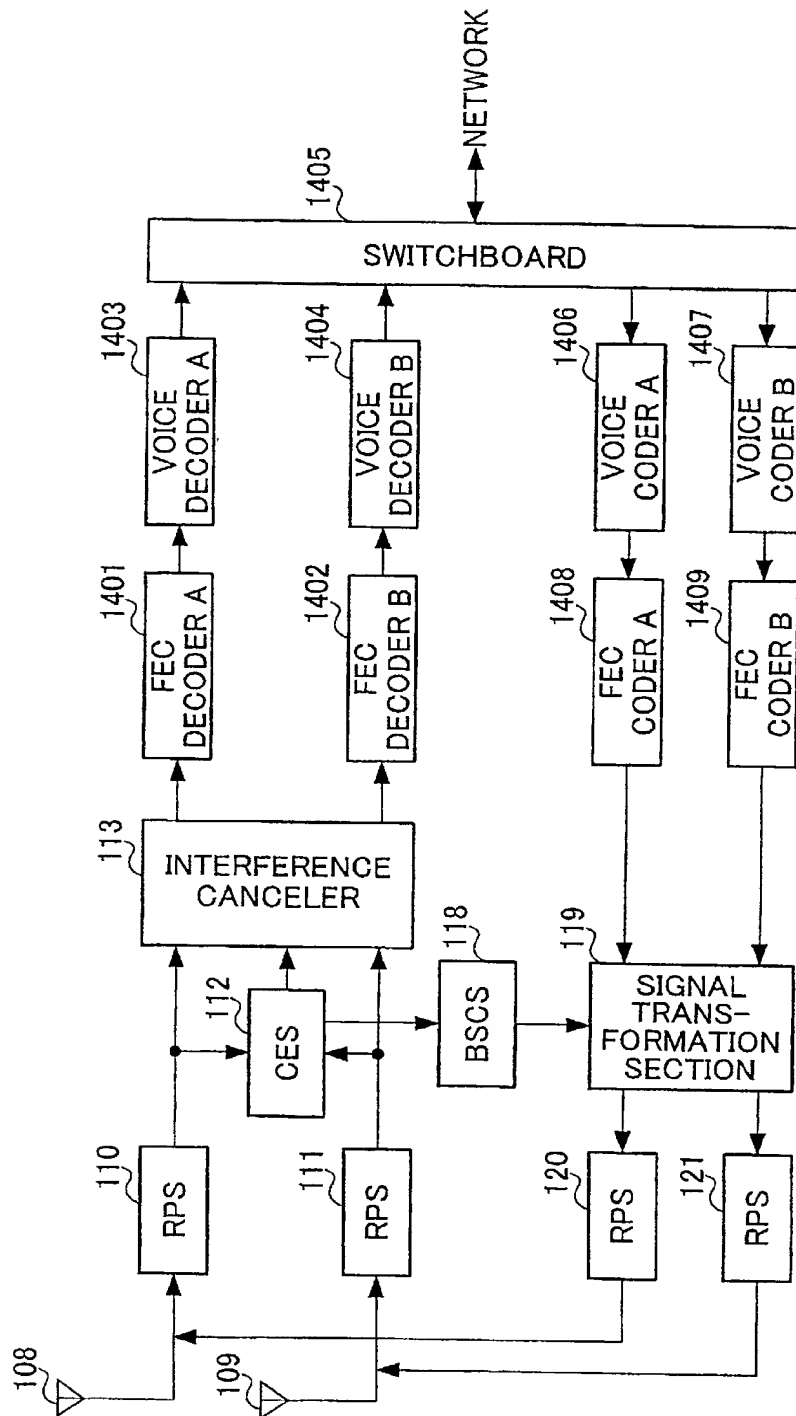(U):UPLINK   (D):DOWNLINK

FIG.13

FIG.14

FIG.15

RPS:RADIO PROCESSING SECTION
CES:CHANNEL ESTIMATION SECTION
BSCS:BEST SIR CALCULATION SECTION

FIG.16